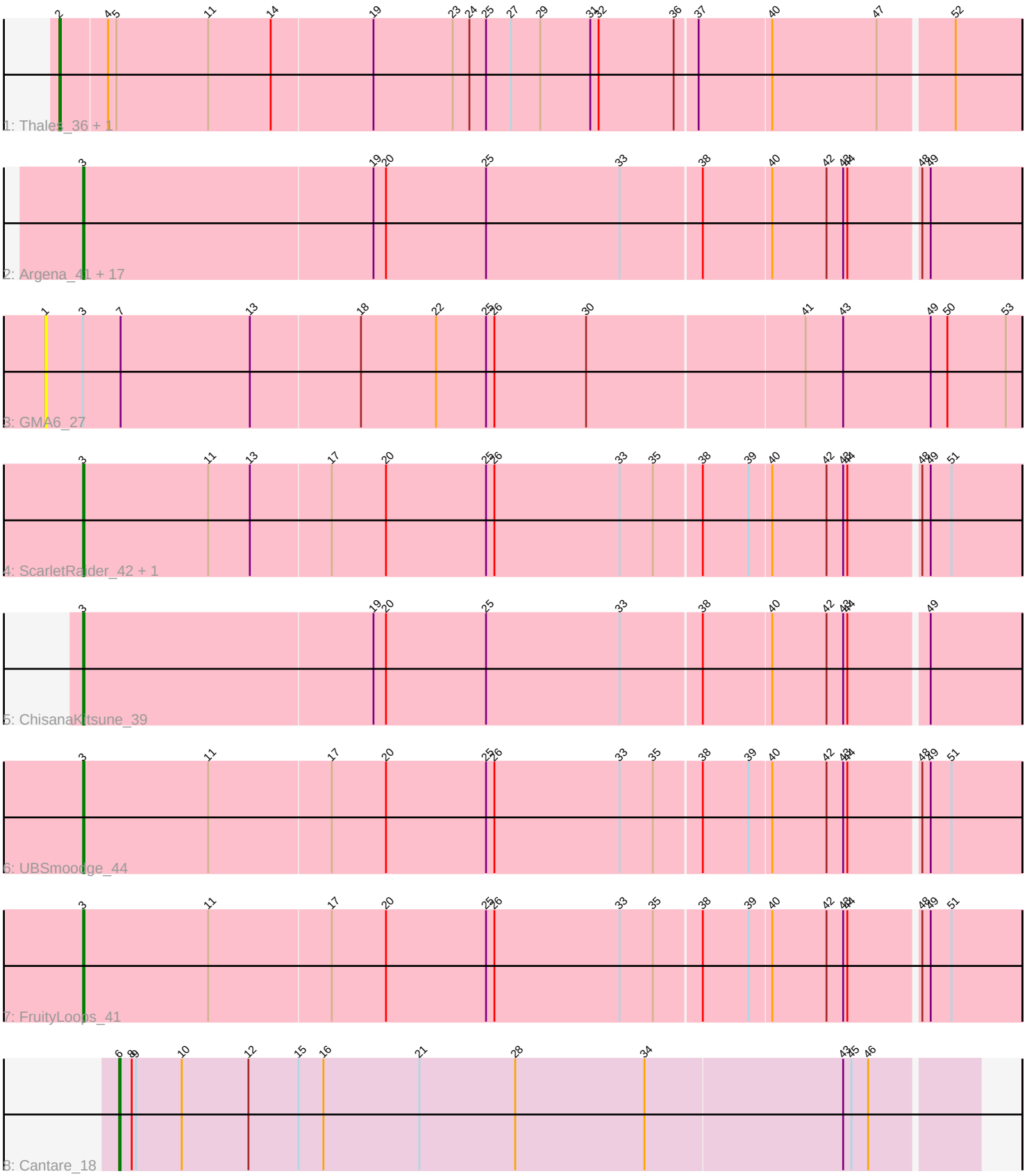
Pham 346054


1: Thales_36 + 1
2: Argena_41 + 17
3: GMA6_27
4: ScarletRaider_42 + 1
5: ChisanaKitsune_39
6: UBSmoodge_44
7: FruityLoops_41
8: Cantare_18

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 346054 Report

This analysis was run 11/14/26 on database version 672.

Pham number 346054 has 27 members, 11 are drafts.

Phages represented in each track:
• Track 1 : Thales_36, DalanDe_37
• Track 2 : Argena_41, Gray_43, Beted_43, Toneprano_41, EmoNemo_41, Chidiebere_43, Mikronejon_43, Schomber_42, Amoonguss_41, Hanem_43, Twin_41, Pakusa_41, Farrylious_42, Lenoshki_43, Kabocha_44, Oogie_44, MintFritos_41, Aloki_43
• Track 3 : GMA6_27
• Track 4 : ScarletRaider_42, FlyingTortilla_42
• Track 5 : ChisanaKitsune_39
• Track 6 : UBSmoodge_44
• Track 7 : FruityLoops_41
• Track 8 : Cantare_18

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 3, it was called in 14 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aloki_43, Amoonguss_41, Argena_41, Beted_43, Chidiebere_43, ChisanaKitsune_39, EmoNemo_41, Farrylious_42, FlyingTortilla_42, FruityLoops_41, Gray_43, Hanem_43, Kabocha_44, Lenoshki_43, Mikronejon_43, MintFritos_41, Oogie_44, Pakusa_41, ScarletRaider_42, Schomber_42, Toneprano_41, Twin_41, UBSmoodge_44,

Genes that have the "Most Annotated" start but do not call it:
• GMA6_27,

Genes that do not have the "Most Annotated" start:
• Cantare_18, DalanDe_37, Thales_36,

Summary by start number:

Start 1:
• Found in 1 of 27 (3.7%) of genes in pham

• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA6_27 (DQ),

Start 2:
• Found in 2 of 27 (7.4%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DalanDe_37 (DQ), Thales_36 (DQ),

Start 3:
• Found in 24 of 27 (88.9%) of genes in pham
• Manual Annotations of this start: 14 of 16
• Called 95.8% of time when present
• Phage (with cluster) where this start called: Aloki_43 (DQ), Amoonguss_41 (DQ), Argena_41 (DQ), Beted_43 (DQ), Chidiebere_43 (DQ), ChisanaKitsune_39 (DQ), EmoNemo_41 (DQ), Farrylious_42 (DQ), FlyingTortilla_42 (DQ), FruityLoops_41 (DQ), Gray_43 (DQ), Hanem_43 (DQ), Kabocha_44 (DQ), Lenoshki_43 (DQ), Mikronejon_43 (DQ), MintFritos_41 (DQ), Oogie_44 (DQ), Pakusa_41 (DQ), ScarletRaider_42 (DQ), Schomber_42 (DQ), Toneprano_41 (DQ), Twin_41 (DQ), UBSmoodge_44 (DQ),

Start 6:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cantare_18 (singleton),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, DQ,

Info for manual annotations of cluster DQ:
•Start number 2 was manually annotated 1 time for cluster DQ.
•Start number 3 was manually annotated 14 times for cluster DQ.

Gene Information:

Gene: Aloki_43 Start: 30279, Stop: 30941, Start Num: 3
Candidate Starts for Aloki_43:
(Start: 3 @30279 has 14 MA's), (19, 30486), (20, 30495), (25, 30567), (33, 30663), (38, 30720), (40, 30768), (42, 30807), (43, 30819), (44, 30822), (48, 30870), (49, 30876),

Gene: Amoonguss_41 Start: 30282, Stop: 30944, Start Num: 3
Candidate Starts for Amoonguss_41:
(Start: 3 @30282 has 14 MA's), (19, 30489), (20, 30498), (25, 30570), (33, 30666), (38, 30723), (40, 30771), (42, 30810), (43, 30822), (44, 30825), (48, 30873), (49, 30879),

Gene: Argena_41 Start: 30279, Stop: 30941, Start Num: 3
Candidate Starts for Argena_41:

(Start: 3 @30279 has 14 MA's), (19, 30486), (20, 30495), (25, 30567), (33, 30663), (38, 30720), (40, 30768), (42, 30807), (43, 30819), (44, 30822), (48, 30870), (49, 30876),

Gene: Beted_43 Start: 31959, Stop: 32621, Start Num: 3
Candidate Starts for Beted_43:
(Start: 3 @31959 has 14 MA's), (19, 32166), (20, 32175), (25, 32247), (33, 32343), (38, 32400), (40, 32448), (42, 32487), (43, 32499), (44, 32502), (48, 32550), (49, 32556),

Gene: Cantare_18 Start: 16657, Stop: 17268, Start Num: 6
Candidate Starts for Cantare_18:
(Start: 6 @16657 has 1 MA's), (8, 16666), (9, 16669), (10, 16702), (12, 16750), (15, 16786), (16, 16804), (21, 16873), (28, 16942), (34, 17035), (43, 17176), (45, 17182), (46, 17194),

Gene: Chidiebere_43 Start: 30279, Stop: 30941, Start Num: 3
Candidate Starts for Chidiebere_43:
(Start: 3 @30279 has 14 MA's), (19, 30486), (20, 30495), (25, 30567), (33, 30663), (38, 30720), (40, 30768), (42, 30807), (43, 30819), (44, 30822), (48, 30870), (49, 30876),

Gene: ChisanaKitsune_39 Start: 29070, Stop: 29732, Start Num: 3
Candidate Starts for ChisanaKitsune_39:
(Start: 3 @29070 has 14 MA's), (19, 29277), (20, 29286), (25, 29358), (33, 29454), (38, 29511), (40, 29559), (42, 29598), (43, 29610), (44, 29613), (49, 29667),

Gene: DalanDe_37 Start: 32951, Stop: 33628, Start Num: 2
Candidate Starts for DalanDe_37:
(Start: 2 @32951 has 1 MA's), (4, 32984), (5, 32990), (11, 33056), (14, 33101), (19, 33173), (23, 33230), (24, 33242), (25, 33254), (27, 33272), (29, 33293), (31, 33329), (32, 33335), (36, 33389), (37, 33404), (40, 33455), (47, 33530), (52, 33581),

Gene: EmoNemo_41 Start: 30279, Stop: 30941, Start Num: 3
Candidate Starts for EmoNemo_41:
(Start: 3 @30279 has 14 MA's), (19, 30486), (20, 30495), (25, 30567), (33, 30663), (38, 30720), (40, 30768), (42, 30807), (43, 30819), (44, 30822), (48, 30870), (49, 30876),

Gene: Farrylious_42 Start: 30055, Stop: 30717, Start Num: 3
Candidate Starts for Farrylious_42:
(Start: 3 @30055 has 14 MA's), (19, 30262), (20, 30271), (25, 30343), (33, 30439), (38, 30496), (40, 30544), (42, 30583), (43, 30595), (44, 30598), (48, 30646), (49, 30652),

Gene: FlyingTortilla_42 Start: 33144, Stop: 33806, Start Num: 3
Candidate Starts for FlyingTortilla_42:
(Start: 3 @33144 has 14 MA's), (11, 33234), (13, 33264), (17, 33321), (20, 33360), (25, 33432), (26, 33438), (33, 33528), (35, 33552), (38, 33585), (39, 33618), (40, 33633), (42, 33672), (43, 33684), (44, 33687), (48, 33735), (49, 33741), (51, 33756),

Gene: FruityLoops_41 Start: 33158, Stop: 33820, Start Num: 3
Candidate Starts for FruityLoops_41:
(Start: 3 @33158 has 14 MA's), (11, 33248), (17, 33335), (20, 33374), (25, 33446), (26, 33452), (33, 33542), (35, 33566), (38, 33599), (39, 33632), (40, 33647), (42, 33686), (43, 33698), (44, 33701), (48, 33749), (49, 33755), (51, 33770),

Gene: GMA6_27 Start: 20993, Stop: 21688, Start Num: 1
Candidate Starts for GMA6_27:

(1, 20993), (Start: 3 @21020 has 14 MA's), (7, 21047), (13, 21140), (18, 21218), (22, 21272), (25, 21308), (26, 21314), (30, 21380), (41, 21533), (43, 21560), (49, 21623), (50, 21635), (53, 21677),

Gene: Gray_43 Start: 30280, Stop: 30942, Start Num: 3
Candidate Starts for Gray_43:
(Start: 3 @30280 has 14 MA's), (19, 30487), (20, 30496), (25, 30568), (33, 30664), (38, 30721), (40, 30769), (42, 30808), (43, 30820), (44, 30823), (48, 30871), (49, 30877),

Gene: Hanem_43 Start: 30279, Stop: 30941, Start Num: 3
Candidate Starts for Hanem_43:
(Start: 3 @30279 has 14 MA's), (19, 30486), (20, 30495), (25, 30567), (33, 30663), (38, 30720), (40, 30768), (42, 30807), (43, 30819), (44, 30822), (48, 30870), (49, 30876),

Gene: Kabocha_44 Start: 31092, Stop: 31754, Start Num: 3
Candidate Starts for Kabocha_44:
(Start: 3 @31092 has 14 MA's), (19, 31299), (20, 31308), (25, 31380), (33, 31476), (38, 31533), (40, 31581), (42, 31620), (43, 31632), (44, 31635), (48, 31683), (49, 31689),

Gene: Lenoshki_43 Start: 31959, Stop: 32621, Start Num: 3
Candidate Starts for Lenoshki_43:
(Start: 3 @31959 has 14 MA's), (19, 32166), (20, 32175), (25, 32247), (33, 32343), (38, 32400), (40, 32448), (42, 32487), (43, 32499), (44, 32502), (48, 32550), (49, 32556),

Gene: Mikronejon_43 Start: 30279, Stop: 30941, Start Num: 3
Candidate Starts for Mikronejon_43:
(Start: 3 @30279 has 14 MA's), (19, 30486), (20, 30495), (25, 30567), (33, 30663), (38, 30720), (40, 30768), (42, 30807), (43, 30819), (44, 30822), (48, 30870), (49, 30876),

Gene: MintFritos_41 Start: 30280, Stop: 30942, Start Num: 3
Candidate Starts for MintFritos_41:
(Start: 3 @30280 has 14 MA's), (19, 30487), (20, 30496), (25, 30568), (33, 30664), (38, 30721), (40, 30769), (42, 30808), (43, 30820), (44, 30823), (48, 30871), (49, 30877),

Gene: Oogie_44 Start: 31985, Stop: 32647, Start Num: 3
Candidate Starts for Oogie_44:
(Start: 3 @31985 has 14 MA's), (19, 32192), (20, 32201), (25, 32273), (33, 32369), (38, 32426), (40, 32474), (42, 32513), (43, 32525), (44, 32528), (48, 32576), (49, 32582),

Gene: Pakusa_41 Start: 30021, Stop: 30683, Start Num: 3
Candidate Starts for Pakusa_41:
(Start: 3 @30021 has 14 MA's), (19, 30228), (20, 30237), (25, 30309), (33, 30405), (38, 30462), (40, 30510), (42, 30549), (43, 30561), (44, 30564), (48, 30612), (49, 30618),

Gene: ScarletRaider_42 Start: 33171, Stop: 33833, Start Num: 3
Candidate Starts for ScarletRaider_42:
(Start: 3 @33171 has 14 MA's), (11, 33261), (13, 33291), (17, 33348), (20, 33387), (25, 33459), (26, 33465), (33, 33555), (35, 33579), (38, 33612), (39, 33645), (40, 33660), (42, 33699), (43, 33711), (44, 33714), (48, 33762), (49, 33768), (51, 33783),

Gene: Schomber_42 Start: 30029, Stop: 30691, Start Num: 3
Candidate Starts for Schomber_42:
(Start: 3 @30029 has 14 MA's), (19, 30236), (20, 30245), (25, 30317), (33, 30413), (38, 30470), (40, 30518), (42, 30557), (43, 30569), (44, 30572), (48, 30620), (49, 30626),

Gene: Thales_36 Start: 31867, Stop: 32544, Start Num: 2
Candidate Starts for Thales_36:
(Start: 2 @31867 has 1 MA's), (4, 31900), (5, 31906), (11, 31972), (14, 32017), (19, 32089), (23, 32146), (24, 32158), (25, 32170), (27, 32188), (29, 32209), (31, 32245), (32, 32251), (36, 32305), (37, 32320), (40, 32371), (47, 32446), (52, 32497),

Gene: Toneprano_41 Start: 30279, Stop: 30941, Start Num: 3
Candidate Starts for Toneprano_41:
(Start: 3 @30279 has 14 MA's), (19, 30486), (20, 30495), (25, 30567), (33, 30663), (38, 30720), (40, 30768), (42, 30807), (43, 30819), (44, 30822), (48, 30870), (49, 30876),

Gene: Twin_41 Start: 30279, Stop: 30941, Start Num: 3
Candidate Starts for Twin_41:
(Start: 3 @30279 has 14 MA's), (19, 30486), (20, 30495), (25, 30567), (33, 30663), (38, 30720), (40, 30768), (42, 30807), (43, 30819), (44, 30822), (48, 30870), (49, 30876),

Gene: UBSmoodge_44 Start: 32905, Stop: 33567, Start Num: 3
Candidate Starts for UBSmoodge_44:
(Start: 3 @32905 has 14 MA's), (11, 32995), (17, 33082), (20, 33121), (25, 33193), (26, 33199), (33, 33289), (35, 33313), (38, 33346), (39, 33379), (40, 33394), (42, 33433), (43, 33445), (44, 33448), (48, 33496), (49, 33502), (51, 33517),